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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/461,984	12/15/1999	JIN LU	PHA-23-890	4517	
24737	7590 10/31/2006		EXAMINER		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			HOFFMAN, E	HOFFMAN, BRANDON S	
			ART UNIT	PAPER NUMBER	
,		2136			
			DATE MAILED: 10/31/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

1)⊠ Responsive to communication(s) filed on <i>07 August 2006</i> . 2a)⊠ This action is FINAL. 2b)☐ This action is non-final. 3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☑ Claim(s) <i>1-30</i> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)☐ Claim(s) is/are allowed. 6)☑ Claim(s) <i>1-30</i> is/are rejected. 7)☐ Claim(s) is/are objected to. 8)☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)☐ The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * o)☐ None of: 1.☐ Certified copies of the priority documents have been received in Application No 3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.			Application No.	Applicant(s)					
Brandon S. Hoffman 2136 Brandon S. Hoffman 2136 Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Brandon St. Mold Proper is expedited above, the maintainer statistical series (30, 60) Will his set of series (30, 60) Will his set of series (30, 60) within the set of extended period fire reply is expedited above, the maintainer statistical period fire longer and the second ABANCOCIDE (30) U.S. € 1330. Brandon St. Mold Proper is expedited above, the maintainer statistical period fire second above to second above the second abancher second above the second above the second abancher second above the second abov	Office Action Summary		09/461,984	LU ET AL.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Ederations of them may be available under the proxime of 37 CFR 1.186, in. no event, however, may a reply be timely filed If NO period for reply is quantified above, the maximum statutory parted will apply and vall expire SIX (8) MONTHS from the malling date of this communication, Period to reply the small provided by the following the service of the communication of 37 CFR 1.184(8). If NO period for reply is quantified above, the maximum statutory parted will apply and vall expire SIX (8) MONTHS from the malling date of this communication. Period by the Clific later than the maximum statutory parted will apply and vall expire SIX (8) MONTHS from the malling date of this communication. Period by the communication of the parted will expire any expire of the communication of			Examiner	Art Unit					
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DETAILED ACTION

1. Claims 1-30 are pending in this office action, claim 30 is newly added.

2. Applicant's arguments, filed August 7, 2006, have been fully considered but they are not persuasive.

Rejections

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

4. <u>Claims 1-30</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Zhang et al.</u> (U.S. Patent No. 6,550,008) in view of <u>Applicant's Admitted Prior Art</u> (AAPA), and further in view of <u>Sawabe et al.</u> (U.S. Patent No. 6,571,055)

Regarding <u>claims 1, 2, 8, 13, and 18, Zhang et al.</u> teaches a system/method/ deployment module/host device/article of manufacture for copy protecting information, the system comprising:

- A point of deployment module (fig. 2, ref. num 26); and
- A set-top box including (fig. 2, ref. num 24);

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- Wherein the set-top box transmits a request message for information (fig. 4, step 1-2),
- The point of deployment module generates a reply message, relating to the information (fig. 4, step 4-5),
- Respectively generating a first key in the point of deployment module and a second key in the set-top box, using information association with each respective device (fig. 4, step 6-8 and col. 9, lines 33-67, specifically, lines 33-50 where the POD and set-top box each create a key using values of the set-top box and POD, respectively [G^{-h} and G^{-P} for the host and POD]), and
- The point of deployment module encrypting the information with the first shared key and transmitting the encrypted information to the set-top box (fig. 4, step 9), and
- The set-top box decrypting the encrypted information with the second shared key when the first and second shared keys match (fig. 4, step 10).

Zhang et al. does not teach the reply message includes at least one control information pair, each control information pair having copy control information and a stream identifier, and the keys are generated using the at least one control information pair.

AAPA teaches the reply message including at least one control information pair, each pair having copy control information and a stream identifier (page 2, paragraph 2

through 4 of specification, the definition of an elementary stream is that it contains a stream ID in the header of each elementary stream, coupled with the CCI used for each elementary stream, as suggested by AAPA).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine each control information pair having copy control information and a stream identifier, as taught by <u>AAPA</u>, with the system of <u>Zhang et al.</u> It would have been obvious for such modifications because shared session keys, used for symmetric key cryptosystems, provide authentication of devices as well as keeping data secure.

The combination of <u>Zhang et al.</u> as modified by <u>AAPA</u> still does not teach the keys are generated using the at least one control information pair.

Sawabe et al. teaches the keys are generated using the at least one control information pair (fig. 2, ref. num 241B and 241D).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine generating keys using the at least one control information pair, as taught by <u>Sawabe et al.</u>, with the system of <u>Zhang et al./AAPA</u>. It would have been obvious for such modifications because shared session keys, used for

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symmetric key cryptosystems, provide authentication of devices as well as keeping data secure.

Regarding claims 3, 9, and 14, the combination of Zhang et al. as modified by AAPA/Sawabe et al. teaches wherein the deployment module is selected from the group consisting of a point of deployment module, wireless data interface appliance, smartcard, personal computer, or Internet interface appliance (see col. 3, line 16 of Zhang et al.).

Regarding claims 4, 10, and 15, the combination of Zhang et al. as modified by AAPA/Sawabe et al. teaches wherein the host is a set-top box (see col. 1, line 28 of Zhang et al.).

Regarding <u>claim 5</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe</u> <u>et al.</u> teaches wherein the encryption means includes a hash function (see col. 10, lines 36-39 of Zhang et al.).

Regarding <u>claim 6</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe</u> <u>et al.</u> teaches wherein the encrypted information in an elementary stream of information is encrypted with the first shared key (see fig. 4, step num 9 of Zhang et al.).

Regarding <u>claims 7, 25, and 28,</u> the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein the stream identifier that is transmitted to the host is incorporated with the Packetized Elementary Stream (PES) header of the elementary stream (see page 2, paragraph 2-4 of specification of AAPA).

Regarding <u>claims 11 and 16</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein the encrypted information is transmitted to the host device using a transport stream, wherein the transport stream includes at least one elementary stream (see page 2, paragraph 2 through 4 of specification of AAPA).

Regarding claims 12 and 17, the combination of Zhang et al. as modified by AAPA/Sawabe et al. teaches wherein respective ones of the at least one control information pairs is associated with respective ones of the at least one elementary streams (see page 2, paragraph 2-4 of specification of AAPA).

Regarding <u>claim 19</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein to use the at least one control information pair in the generating of said second key the set-top box receives a transmission of said at least one control information pair, the respective copy control information of said at least one control information pair not being encrypted for the transmission (see fig. 2, ref. num 241D of Sawabe et al.).

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Regarding <u>claim 20</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein step b) is executed without encrypting said copy control information of said at least one control information pair (see fig. 2, ref. num 241D of Sawabe et al.).

Regarding <u>claim 21</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein said copy control information of said at least one control information pair in the reply message is unencrypted upon transmission to the host device (see col. 3, lines 7-13 of Zhang et al.).

Regarding <u>claim 22</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein the information to be encrypted comprises content information (see col. 10, lines 22-25 of Zhang et al.).

Regarding <u>claim 23</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein said content information comprises content information of an elementary stream, said stream identifier being an identifier of an elementary stream (see fig. 4, step num 9 of Zhang et al.).

Regarding <u>claims 24 and 27</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein said stream identifier uniquely identifies an

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elementary stream that is assigned said copy control information (see page 2, paragraph 3 of AAPA).

Regarding <u>claims 26 and 29</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein the encrypted information to be transmitted to the set-top box includes said header, said set-top box being configured to retrieve said stream identifier from said header (see fig. 2, ref. num 241 of Sawabe et al.).

Regarding <u>claim 30</u>, the combination of <u>Zhang et al.</u> as modified by <u>AAPA/Sawabe et al.</u> teaches wherein the information associated with each respective device is a random number generated by each respective device (see col. 9, lines 33-50 of Zhang et al.).

Response to Arguments

- 5. Applicant amends claims 1, 2, 8, 13, and 18.
- 6. Applicant's arguments are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon S. Hoffman whose telephone number is 571-272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser G. Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brando Weff

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10/29,06